Amendments to the Claims

Please amend claims 1, 9, and 15 as follows:

1. (Currently Amended) A method to compensate for errors in printing a pattern to be printed on a photosensitive surface using a spatial light modulator (SLM), comprising:

defining two or more exposure areas on the photosensitive surface, the exposure areas overlapping along respective edge portions of the exposure areas to form an overlap zone therebetween;

determining attenuation of at least one of a predicted aerial image and a corresponding resist image;

exposing the two or more exposure areas to print an image therein, the exposing extending through the overlap zone; and

implementing the determined attenuation during attenuating the exposing within the overlap zone.

- 2. (Original) The method of claim 1, wherein the exposing includes applying a laser dose.
- 3. (Original) The method of claim 1, wherein each exposure area corresponds to one illumination source pulse.
- 4. (Original) The method of claim 1, wherein the attenuating step includes active attenuation.

- 5. (Original) The method of claim 4, wherein the active attenuation step includes dynamically adjusting pixels within the SLM to compensate for deficiencies within the image.
- 6. (Original) The method of claim 1, wherein the attenuating step includes passive attenuation.
- 7. (Original) The method of claim 6, wherein the passive attenuation step includes use of at least one from the group including apodized apertures, out of focus aperture/field stop, and pre-fabricated modification of SLM pixels.
- 8. (Original) The method of claim 1, wherein the attenuating step is a function of at least one from the group including illumination mode, dimensions of the overlap zone, and dimensions of the image.
- 9. (Currently Amended) An apparatus configured to compensate for errors in printing a pattern to be printed on a photosensitive surface using a spatial light modulator (SLM), the apparatus comprising:

means for defining two or more exposure areas on the photosensitive surface, the exposure areas overlapping along respective edge portions of the exposure areas to form an overlap zone therebetween;

means for determining attenuation of at least one of a predicted aerial image and a corresponding resist image;

means for exposing the two or more exposure areas to print an image therein, the exposing extending through the overlap zone; and

means for <u>implementing</u> the <u>determined attenuation</u> during attenuating the exposing within the overlap zone.

- 10. (Original) The apparatus of claim 9, wherein the means for exposing is configured to apply a laser dose.
- 11. (Original) The apparatus of claim 9, wherein each area corresponds to one illumination source pulse.
- 12. (Original) The apparatus of claim 9, wherein the means for attenuating is configured to perform active attenuation.
- 13. (Original) The apparatus of claim 9, wherein the active attenuation includes dynamically adjusting pixels within the SLM to compensate for deficiencies within the image.
- 14. (Original) The apparatus of claim 9, wherein the means for attenuating is configured to perform passive attenuation.
- 15. (Currently Amended) A computer readable medium carrying one or more sequences of one or more instructions for execution by one or more processors to perform a method to compensate for errors in printing a pattern to be printed on a photosensitive surface using a spatial light modulator (SLM), the instructions when executed by the one or more processors, cause the one or more processors to perform the steps of:

defining two or more exposure areas on the photosensitive surface, the exposure areas overlapping along respective edge portions of the exposure areas to form an overlap zone therebetween;

determining attenuation of at least one of a predicted aerial image and a corresponding resist image;

exposing the two or more exposure areas to print an image, the exposing extending through the overlap zone; and

implementing the determined attenuation during attenuating the exposing within the overlap zone.